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District IV
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State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised July 18, 2013

OCD - HOBBS
07/26/2016
RECEIVED

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address Apache Corporation: 303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705		2. OGRID Number 873
		3. API Number 30-025-34163
4. Property Code 309138	5. Property Name J H Williams	6. Well No. 002

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	34	19S	37E		470	South	990	East	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	34	19S	37E		470	South	990	East	Lea

9. Pool Information

Pool Name Eumont; Yates-7 RVRS-Queen (Oil)	Pool Code 22800
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Additional Well Information

11. Work Type A = P	12. Well Type O	13. Cable/Rotary R	14. Lease Type P	15. Ground Level Elevation 3569
16. Multiple No	17. Proposed Depth 7,000'	18. Formation Tubb / Drinkard 7R-Qu	19. Contractor --	20. Spud Date 10/26/1997
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	12-1/4"	9-5/8"	36#	1241'	600 sxs	3565'
Intermediate	8-3/4"	7"	23#	4030'	400 sxs	2862'
Production	6-1/8"	4-1/2"	10.5#	7000'	265 sxs	

Casing/Cement Program: Additional Comments

Isolate open perms (Drinkard, Tubb) and re-complete in Eumont

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer

<p>23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input type="checkbox"/>, if applicable. Signature: <i>Isabel Hudson</i></p>	<p>OIL CONSERVATION DIVISION</p> <p>Approved By: <i>[Signature]</i></p> <p>Title: Petroleum Engineer</p> <p>Approved Date: 07/26/2016 Expiration Date: 07/26/2018</p>
Printed name: Isabel Hudson	
Title: Regulatory Analyst	
E-mail Address: Isabel.Hudson@apachecorp.com	
Date: 07/25/2016	Phone: (432) 818-1142
Conditions of Approval Attached	

KZ



July 21, 2016

Williams JH # 2

API # 30-025-34163

Lea County, NM

Production Casing: 4-1/2" 10.5# Set @ 7,000'

Producing Interval: **6,418-904'**

Objective: Isolate open perms (Drinkard, Tubb) and re-complete in Eumont

Procedure:

1. POOH with rods and tbg
2. Set CIBP @ 6,380' with 35' cmt
3. Fill up casing with 7% KCL water
4. Pressure test casing to 600 psi
5. RIH with a wireline re-entry guide, 1.875 X-nipple, 10' pup jt, 5K tension set packer and test tbg to 80%
6. Set top of packer @ 3,380'
7. Pressure up casing to 500 psi.
8. Swab well down to 2,000'
9. Perforate with 1-11/16" strip gun (4 spf 0° phasing, deep penetrating charges):
 - 3,442-51'
 - 3,472-76'
 - 3,480-94'
 - 3,500-08'
 - 3,512-22'
 - 3,538-42'
 - 3,560-64'
 - 3,583-96'
 - 3,600-05'
 - 3,620-28'
 - 3,640-45'
 - 3,652-62'
10. Rig up acid truck
11. Load tbg with acid and break down formation with acid. Use 7% KCl water to displace acid
12. Do not over displace water into the formation. Leave 2-3 bbls of acid in the tbg
13. Swab test well and determine if a rod pump is required
14. Return the well to production

GL=3569'
KB=3579'
Spud:10/26/97

Apache Corporation – J.H. Williams #2

Wellbore Diagram – Current

Date: 3/30/2016

API: 30-025-34163

Surface Location

K. Grisham



470' FSL & 990' FEL,
Lot P Sec 34, T19S, R37E, Lea County, NM

Surface Casing

9-5/8" 36# @ 1241' w/ 600 sxs to surface

TOC @ 3565'

Intermediate Casing

7" 23# J-55 @ 4030' w/ 400 sxs. TOC @ 2862'

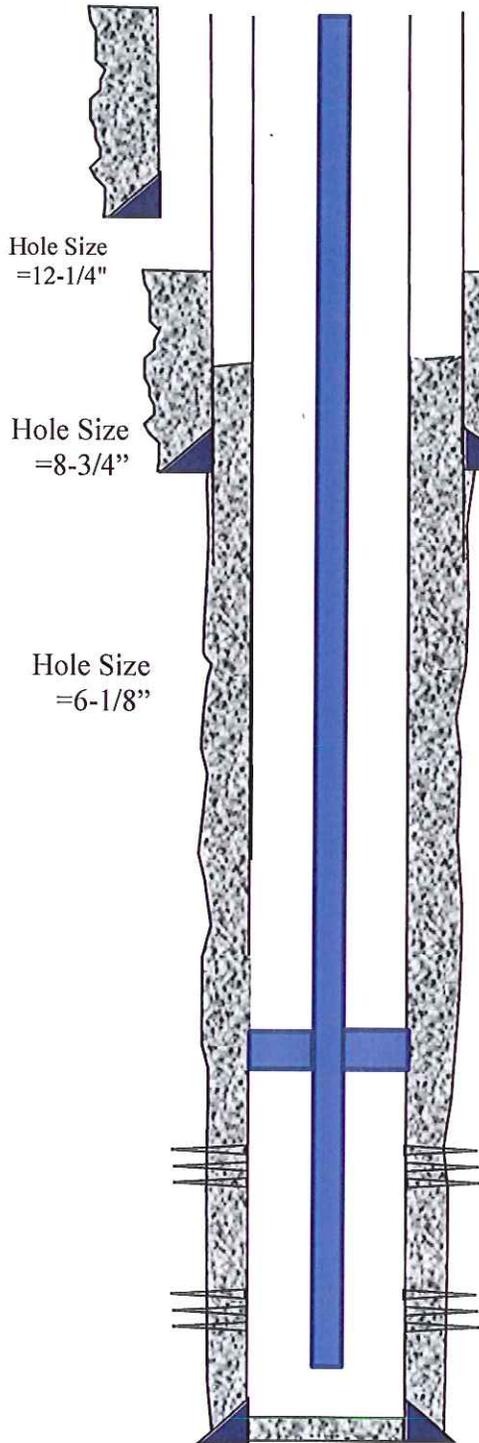
7/12: Treat for paraffin. Acid frac Drinkard w/ 64,386 gals acid. Acidize Tubb w/ 2500 gals 15% HCl, drop 120 ball sealers, no ball action.

5/98: Perf Tubb @ 6418-6614 w/ 2 jspf (90 holes)
Acidized w/ 10,000 gal 15% NEFE w/ 136 mcf N2
8/12: Acidized w/ 2500 gallons 15% NEFE

11/97: Perf Drinkard @ 6812-6904 w/ 2 jspf (118 holes)
Acidized w/ 5000 gal 15% HCL
8/12: Acid frac with 860 bbs 12# XL assist and 64,386 gal 15% Divert S acid system.

Production Casing

4-1/2" 10.5# J-55 @ 7000' w/ 265 sxs



PBTD = 6,950'
MD = 7,000'